

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/941,820	08/28/2001	James G. Fleming	6261.1/97639	6261.1/97639 7965	
7590 07/02/2004			EXAMINER		
Timothy D. Stanley			MULPURI, SAVITRI		
Sandia National Laboratories P. O. Box 5800 - MS-0161 Albuquerque, NM 87185-0161			ART UNIT	PAPER NUMBER	
			2812		

DATE MAILED: 07/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



Supplemental Notice of Allowability

Application No.	Applicant(s)	
09/941,820	FLEMING ET AL.	
Examiner	Art Unit	
Savitri Mulpuri	2812	

Notice of Allowability	Examiner	Art Unit				
	Savitri Mulpuri	2812				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT the Office or upon petition by the applicant. See 37 CFR 1:313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS			
 This communication is responsive to <u>exa. amdt 1/12/049 c</u> The allowed claim(s) is/are <u>61,63-70,73-76 and 80-83</u>. The drawings filed on are accepted by the Examiner Acknowledgment is made of a claim for foreign priority un a) All Bome* c) None of the: 	der 35 U.S.C. § 119(a)-(d) or (f).	<u>9/04)</u> .				
1. Certified copies of the priority documents have						
2. Certified copies of the priority documents have						
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this r	national stage applica	tion from the			
* Certified copies not received:						
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
(a) The translation of the foreign language provisional a	pplication has been received.					
 Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application 		nce a specific referen	ce was included			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply co	mplying with the requ	irements noted EXTENDABLE .			
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF			
8. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers		948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No						
(b) I including changes required by the proposed drawing correction filed, which has been approved by the Examiner.						
(c) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No						
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			∍ back) of			
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T			Note the			
Attachment(s)						
1☐ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	tent Application (PTO	-152)			
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Summary (I	PTO-413), Paper No.	<u>1/29/04</u> .			
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	7⊠ Examiner's Amendment/Comment Correct VEDSI W					
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8☐ Examiner's Statemen 9☐ Other .	Savitri Mulpuri Primary Examiner Art Unit: 2812	vance			

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Hoheimer on 1/12/04. The application has been amended as follows:

Cancel claims 44-60

In claim 61, line 12 after "second material" add ---, wherein the first and the second materials are selected from the group consisting of polycrystalline silicon, amorphous silicon, silicon nitride, silicon dioxide, silicate glasses, III-V semiconductors, II-VI semiconductors, transparent oxides, sol-gel glasses, spin-on-glasses -----

Cancel 62

In claim 63 replace "62" with ---61-

In claim 64 replace "62" with ---61---

In claim 65 replace "62" with ---61---

In claim 68 replace "62" with -61-

In claim 69 replace "62" with ---61--

Art Unit: 2812

In claim 70, line 5 after "layer" add ---, wherein the plurality of honeycomb layers forms a periodic structure having a bandgap therein, and wherein each rod comprising a materials selected from the group consisting of polycrystalline silicon, amorphous silicon, silicon nitride, silicon dioxide, silicate glasses, III-V semiconductors, II-VI semiconductors, II-IV semiconductors, transparent oxides, sol-gel glasses, spin-on-glasses----

Cancel 71, 72

In claim 76, line 6 after "hexagonal-pattern layer" add -----, wherein the interconnected rods and the dots comprising a first material, wherein a second material filling in spaces between the interconnected rods of each-hexagonal-pattern layer and spaces between the dots of each interconnection layer, and wherein the first and the second materials being selected from the group consisting of polycrystalline silicon, amorphous silicon, silicon nitride, silicon dioxide, silicate glasses, III-V semiconductors, II-VI semiconductors, II-IV semiconductors, transparent oxides, sol-gel glasses, spin-on-glasses, gases and vacuum; ----

Cancel 77-79

Art Unit: 2812

Any inquiry concerning this communication should be directed to Savitri Mulpuri at telephone number 571-272-1677.

Savitri Mulpuri Primary Examiner Art Unit 2812